

## ABSTRACT

A method and system for providing a network which routes telephone calls to the dial-up access line of on-line data services, such as an Internet Service Provider. The calls are routed over, over data trunks to a circuit-switch that consolidates access to on-line data services. The data trunks are separate from trunks carrying normal voice telephone calls. At the originating office where the telephone call originates, the call is recognized as a call to a telephone number associated with the dial-up access telephone number of an on-line data service. A database selects a route over a data trunk to the terminating office having a circuit-switch that consolidates access to the on-line data services. The consolidation of access to on-line data services over segregated data trunks to a single circuit-switch reduces congestion in the network by relieving the network from handling a large volume of long duration telephone calls.